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Notice of Allowability

Application No.

09/771,972

Applicant(s)

ISHIYAMA ET AL.

Examiner

Nabil M. El-Hady

Art Unit

2152

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/18/2005.
2. ☒ The allowed claim(s) is/are 1-4, 6-22, now as 1-21.
3. ☒ The drawings filed on 30 January 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 10/29/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 7/20/2005.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

N. El-Hady

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Wrkich, Reg. No. 53796 on July 20, 2005.

2. The application has been amended as follows:

A. In the specification:

The abstract is amended to read:

-- When a first mobile node is moved, it reports binding information including a compatible node identifier (virtual mobile guaranteed general network identifier and a node identifier) and a compatible position identifier to a first server which is assigned to the first mobile node. A second mobile node reports the binding information to a second server. For communicating with the second mobile node to which a second server is assigned, if the destination address of a packet addressed to the second mobile node is designated with a compatible node identifier, the first mobile node acquires the binding information of the second mobile node from the second server. Then, the first mobile node converts the destination address of the packet into the acquired compatible position identifier and sets the compatible position identifier of the first mobile node as the source address of the packet. The first mobile

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node then transmits the packet. --.

B. In the claims:

I. In claim 1:

- a) line 9, after "another" insert – position identifier management --;
- b) line 12, after "another" insert – position identifier management --;
- c) line 15, replace "." with -- ;

wherein the compatible node identifier of said mobile computer comprises a first virtual network identifier assigned to said mobile computer which moves between networks and a node identifier for uniquely specifying said mobile computer, and the compatible position identifier of said mobile computer comprises a second network identifier which is usable only by mobile computers assigned to a network to which said mobile computer is connected and the node identifier. --.

II. In claim 2:

- a) line 4, replace "an external" with – another --;
- b) line 5, replace "external" with – another --;
- c) line 6, replace "an external" with – another --;
- d) line 7, replace "external" with – another --;
- e) line 8, replace "external" with – another --;
- f) line 11, replace "an external" with – another --;
- g) line 12, replace "external" with – another --.

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III. Cancel claim 5.

IV. In claim 6:

- a) line 6, after "a node" insert -- identifier--;
- b) line 10, replace "external" with --other --;
- c) lines 12-13, replace "external mobile computer" with -- at least one of other mobile computers --;
- d) lines 13-14, replace "external mobile computer" with -- at least one of other mobile computers --;
- c) lines 15-16, replace "external mobile computer" with -- at least one of other mobile computers --;
- c) line 16, replace "external mobile computer" with -- at least one of other mobile computers --.

V. In claim 13:

- a) line 3, after "from" insert -- among a plurality of --;
- b) line 5, after "said" insert -- plurality of --.

VI. In claim 14:

- a) line 3, replace "an external" with -- another --;
- b) line 4, after "from" insert -- among the plurality of --;
- c) line 4, replace "a network" with -- the network --;
- d) line 6, after "said" insert -- plurality of --;
- e) line 9, replace "external" with -- another --;

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f) line 10, replace "external" with – another --;

g) line 15, replace "external" with – another --.

VII. In claim 16:

a) line 12, after "from" insert – among a plurality of --;

b) line 13, replace "the binding information" with – the latest binding information of said mobile computer --;

c) line 14, replace "an external" with – another --;

d) line 14, replace "said " with – one of said plurality of --;

e) line 15, before "binding" insert – latest --;

f) line 19, replace "said" with – a --;

g) line 20, replace "the position identifier management apparatus" with – said one of the specified position identifier management apparatuses --;

h) line 21, replace "the position identifier management apparatus" with – said one of the specified position identifier management apparatuses --;

i) line 24, replace "an external" with – another --.

VIII. In claim 17:

a) line 6, before "position" insert – at least one --.

IX. In claim 19:

a) line 3, replace "identifiers" with – identifier --.

X. In claim 21:

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- a) line 9, after "another" insert -- position identifier management --;
- b) line 12, after "another" insert -- position identifier management --;
- c) line 15, replace "." with -- ;

wherein the compatible node identifier of said mobile computer comprises a first virtual network identifier assigned to said mobile computer which moves between networks and a node identifier for uniquely specifying said mobile computer, and the compatible position identifier of said mobile computer comprises a second network identifier which is usable only by mobile computers assigned to a network to which said mobile computer is connected and the node identifier. --.

XI. In claim 22:

- a) line 6, after "a node" insert -- identifier--;
- b) line 10, replace "external" with --other --;
- c) lines 12-13, replace "external mobile computer" with -- at least one of other mobile computers --;
- d) lines 13-14, replace "external mobile computer" with -- at least one of other mobile computers --;
- c) lines 15-16, replace "external mobile computer" with -- at least one of other mobile computers --;
- c) line 16, replace "external mobile computer" with -- at least one of other mobile computers --.

3. The following is an examiner's statement of reasons for allowance: None of the prior art in record taken alone or in combination discloses a position identifier management apparatus for

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supporting the movement of a mobile computer between networks, comprising storage means for storing binding information concerning said mobile computer managed by said position identifier management apparatus, said binding information including a compatible node identifier for uniquely specifying said mobile computer and a compatible position identifier for uniquely specifying a position of said mobile computer on a network; registration means for registering the binding information in said storage means in response to a registration request to register the binding information from another apparatus; and transmitting means for transmitting the binding information in response to a query about the binding information concerning said mobile computer from another apparatus when said binding information is stored in said storage means; wherein the compatible node identifier of said mobile computer comprises a first virtual network identifier assigned to said mobile computer which moves between networks and a node identifier for uniquely specifying said mobile computer, and the compatible position identifier of said mobile computer comprises a second network identifier which is usable only by mobile computers assigned to a network to which said mobile computer is connected and the node identifier.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

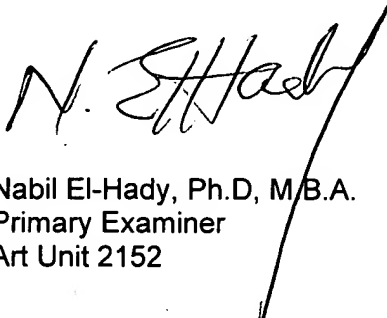
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nabil M. El-Hady whose telephone number is (571) 272-3963. The examiner can normally be reached on 9:00 - 4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 22, 2005


Nabil El-Hady, Ph.D, M.B.A.
Primary Examiner
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